

Volcanic products of Aso Kusasenrigahama as revealed by surface slope collapse

*Toshiaki Hasenaka¹, Masayuki Torii², Yasuhisa Tajima³

1.Department of Earth and Environmental Science, Graduate School of Science and Technology, Kumamoto University, 2.Implementation Research and Education System Center for Reducing Disaster Risk, Kumamoto University, 3.Nippon Koei CO.,LTD.,

Kumamoto Earthquakes of April 14 and 16, 2016 caused tremendous disasters in the central part of Kumamoto prefecture, especially in Mashiki town, Minami Aso village, and Nishihara village. These areas are located close to Futagawa and Hinagu fault zones. Strong earthquake motion also caused landslides or slope collapses in the central cones and caldera walls of Aso volcano. Central cones developed after 90 ka Aso-4 caldera-forming pyroclastic eruption. Among them, 30 ka Kusasenrigahama volcano made the largest-volume eruption since Aso-4. Large-scale slope collapse made appear the interior structures of mountains around Kusasenrigahama volcano. We will discuss its products from the new geologic outcrop information.

Keywords: Aso volcano, Kumamoto earthquakes, Kusasenrigahama volcano